Approved for use through 10/31/2002, OM8 0661-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO Compl te If Kn wn **Application Number** INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor Art Unit (use as many sheets as necassary)

> of . 10

09/724,953 November 28, 2000 Dale B. Schenk 1647 **Examiner Name** Christopher Nichols Attorney Docket Number <u>15270</u>J-005913US

-		
90	252	GEDDES, "N-terminus truncated B-amyloid peptides and C-terminus truncated secreted forms of amyloid precursor protein: distinct roles in the pathogenesis of Alzheimer's disease," Neurobiology of Aging, 20:75-79 (1999).
<u> </u>	251	GARDELLA et al., "Intact Alzheimer amyloid precursor protein (APP) is present in platelet membranes and is encoded by platelet mRNA," <u>Blochem, Blophys. Res. Comm.</u> , 173:1292-1298 (1990).
	249	FRIEDLAND, et al., "Neuroimaging of Vessel Amyloid in Alzheimer's Disease," in <u>Cerebroyascular Pathology in Alzheimer's Disease</u> , eds. de la Torre and Hachinski, New York Academy of Sciences, New York, New York (1997).
	244	FRENKEL, et al., "Modulation of Alzheimer's 8-amyloid neurotoxicity by site-directed single chain antibody," J. of Neuroimmunology, 106:23-31 (2000).
	248	FRENKEL et al., "N-terminal EFRH sequence of Alzheimer's \$\textit{\beta}\$-amyloid peptide represents the epitope of its anti-aggregating antibodies," \(\frac{1}{2} \), of NeuroImmunology, 88:85-90 (1998).
	247	FRENKEL et al., "Immunization against Alzhelmer's β-amyfold plaques via EFRH phage administration," PNAS USA, 97:11455-11459 (2000).
	245	FRENKEL et al., "High affinity binding of monoclonal antibodies to the sequential epitope EFRH of 8- amyloid peptide is essential for modulation of fibrillar aggregation," J. of NeuroImmunology, 95:136- 142 (1999).
	246	FRENKEL et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," Vaccine, 19:2615-2619 (2001).
	328	FELSENSTEIN et al., "Transgenic Rat and In-Vitro Studies of B-Amyloid Precursor Protein Processing;" <u>Alzheimer's and Parkinson's Diseases</u> , Hanin et al. Ed., pp 401-409, Plenum Press, New York, (1995).
	289	ESIRI, "Is an effective immune intervention for Alzheimer's disease in prospect?," Trends in Pharm, Sci., 22:2-3 (2001).
	226	Elan, "Elan and Wyeth Provide Update on Status of Alzheimer's Collaboration," Press Release (3/1/2002)
7	225	Elan, "Elan and AHP Provide an Update on the Phase 2A Clinical Trial of AN-1792," Press Release. (1/28/2002).
$\overline{\omega}$	288	DUMERY et al., "B-Amyloid protein aggregation: Its Implication In the physiopathology of Alzheimer's disease," Pathot. Biol., 49:72-85 (2001).

Europinan	7	/ (/			
Examiner		1 1	Date i	4. 10	
Signature			Considered	コルカス	
		VO	Considered	7 11100	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include congret this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will very depending upon the needs of the inclvidual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademerk Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Assistant Commissioner for Palents, Washington, DC 20231. PA 3307758 v1

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SE/08B (10-01) Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid CMB control number

Substitute	for form 14498	/PTO			Complete if Known	
INFO	PMATIC	M Die	CLOSURE	Application Number	09/724,953	
				"Filing Date	November 28, 2000	
STATEMENT BY APPLICANT				First Named Inventor	Dale B. Schenk	
				Art Unit	1647	
(use as many sheets as necessary)				Examiner Name	Christopher Nichols	
Sheet	1.7	of	10	Attorney Docket Number	15270 1-005913119	

Go	347	JORBECK et al., "Artificial Salmonella Vaccines: Salmonelle typhimurium O-antigen-Specific Oligosaccharide-Protein Conjugates Elicit Opsonizing Antibodies that Enhance Phagocytosis," Infection and Immunity, May:497-502 (1981).	-
	334	JOBLING and HOLMES, "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," Molecular Microbiology, 5(7):1755-1767 (1991).	
	257	JEN, et al., "Preparation and purification of antisera against different regions or isoforms of b-amytold precursor protein," Brain Research Protocols, 2:23-30 (1997).	
	30B	JANUS, et al. A beta peptide immunization reduces behavioural impairment and plaques in a model of Alzhelmer's disease. Nature, 408(6815):979-82 (2000).	
	256	IKEDA, et al., "Immunogold labeling of carebrovascular and neurilic plaque amyloid fibrils in Alzhelmer's disease with an anti-\$ protein monocional antibody," <u>Lab. Invest.</u> , 57:446-449 (1987).	-
	236	HILBICH et al., :Human and rodent sequence analogs of Alzhelmer's amyloid #A4 share similar properties and can be solubilized in buffers of pH 7.4," Eur. J. Blochem., 201:61-69 (1991).	
	229	HAZAMA, et al., "Intranasal immunization Against Herpes Simplex Virus Infection by Using a Recombinant Glycoprotein D Fused With immunomodulating Proteins, the B Subunit of Escherichia Coli Heat-Labile Enterotoxin and Interleukin-2", <u>immunology</u> , Vol. 78: 643-649 (1993).	
	255	HARIGAYA, et al., "Modified amyloid & protein ending at 42 or 40 with different solubility accumulates in the brain of Alzhelmer's disease," <u>Blochem. Biophys. Res. Comm.</u> , 211:1015-1022 (1995).	
	241	HAASS et al. "Amyloid beta-peptide is produced by cultured cells during normal metabolism," Nature, 359(6393):322-5 (1992).	
	254	GRUBECK-LOEBENSTEIN, et al., "Immunization with #-amyloid: could T-cell activation have a harmful effect?", <u>TINS</u> , 23:114 (2000).	
	237	GORTNER, Outlines of Biochemistry, pp. 322-323, John Wiley & Sons, Inc., New York (1949).	
7	303	GONZALES-FERNANDEZ et al., "Low antigen dose favors selection of somatic mutants with hallmarks of antibody affinity maturation." Immunology, 93:149-153 (1998).	
(2)	253	GIULIAN, et al., "The HHQK Domain of b-Amylold Provides a Structural Basis for the Immunopathology of Alzheimer's Disease," <u>Journal of Biological Chem.</u> , 273:29719-29726 (1998).	

Examiner Signature	Ca-Mie	(D)	Date Considered	2/11/02	
	Up Dus		1 30110100	<u> </u>	

EXAMINER: Initial if reference considered, whether or not cliation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Patents. Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for PA 3307758 v1

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1936, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO C mplete if Known **Application Number** 09/724,953 INFORMATION DISCLOSURE Filing Date November 28, 2000 STATEMENT BY APPLICANT First Named Inventor Dale B. Schenk Art Unit 1647 (use as many sheets as necessary) Examiner Name **Christopher Nichols** 6 of | 10 Attomey Docket Number 15270J-005913US

CS	MORGAN, et al., "A beta peptide vaccination prevents memory loss in an animal model of Alzheimer disease," Nature. 408(6815):982-5 (2000).		MORGAN, et al., "A beta peptide vaccination prevents memory loss in an animal model of Alzheimer's disease," Nature. 408(6815):982-5 (2000).	
		310	MERLUZZI, et al. Humanized antibodies as potential drugs for therapeutic use. Adv Clin Path. 4(2):77-85 (2000).	
		265	MENA, et al., "Monitoring pathological assembly of tau and β -amyloid proteins in Alzheimer's disease," Acta Neuropathol., 89:50-56 (1995).	
		238	MCNEAL et al., "Stimulation of local Immunity and protection in mice by intramuscular immunization with triple- or double-layered rotavirus particles and QS-21," Virology, 243:158-166 (1998).	
		264	MCGEER, et al., "Immunohistochemical localization of beta-amyloid precursor protein sequences in Alzheimer and normal brain tissue by light and electron microscopy," <u>J. of Neuroscience Res.</u> , 31:428-442 (1992).	
		309	MATTSON, Cellular actions of beta-amyloid precursor protein and its soluble and fibrillogenic derivatives. Physiol Rev. 77(4):1061-132 (1997).	
		335	MASLIAH et al., "β-Amyloid peptides enhance α-synuclein accumulation and neuronal deficits in a transgenic mouse model linking Alzheimer's disease and Parkinson's disease," PNAS, 98(21):12245-12250 (2001).	
		262	MANN, et al., "The extent of armyloid deposition in brain in patients with Down's syndrome does not depend upon the apolipoprotein E genotype," <u>Neuroscience Letters</u> , 196:105-108 (1995).	
		263	MANN, et al., "Amyloid β protein (A β) deposition in chromosome 14-linked Alzheimer's disease: Predominance of A $\beta_{42(43)}$," Annals of Neurology, 40:149-156 (1996).	
		261	MAK, et al., "Polycionals to b-amyloid (1-42) identify most plaque and vascular deposits in Alzheimer cortex, but not striatum," <u>Brain Research</u> , 667:138-142 (1994).	
		260	LEMERE, et al., "Nasal As treatment induces anti-As antibody production and decreases cerebral amyloid burden in PD-APP mice," <u>Annals of the NY Acad. Scl.</u> , 920:328-331 (2000).	
1	1	259	LANSBURY, PETER T., "Inhibition of amyloid formation: a strategy to delay the onset of Alzheimer's disease," Curr. Ops. in Chemical Biology, 1:260-267 (1997).	
CR	2	258	KIDA, et al., "Early amyloid-β deposits show different immunoreactivity to the amino- and carboxy-terminal regions of b-peptide in Alzheimer's disease and Down's syndrome brain," Neuroscience Letters, 193:105-108 (1995).	

Examiner Signature	Called	Date Considered	711103
	- 4 · 1 · 6 · 0()		

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents. Washington, DC 20231. PA 3307758 v1

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-01)
Approved for use through 10/81/2002. OMB 0851-0031
U.S. Patent and Tradement Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid CMB control number

Substitute for form 1449B/PTO		Complete if Known	
MEODMATION DIGOLOGUES	Application Number	09/724,953	
INFORMATION DISCLOSURE	Filing Date	November 28, 2000	
STATEMENT BY APPLICANT	First Named Inventor	Dale B. Schenk	
	Art Unit	1647	
(use as many sheets as necessary)	Examiner Name	Christopher Nichols	
Sheet 5 of 10	Attomey Docket Number	15270J-005913US	

(5	20	269	PHILIPPE, et al. "Generation of a monoclonal antibody to the carboxy-terminal domain of tau by immunization with the amino-terminal domain of the amylold precursor protein," <u>J. of Neuroscience</u> <u>Res.</u> , 46:709-719 (1996).	
		232	PETERSON, et al., "Recombinant Antibodies: Alternative Strategies for Developing and Manipulating Murine-Derived Monocional Antibodies," <u>Laboratory Animal Science</u> , 46(1):8-14 (1996).	
		336	PERUTZ et al., "Amyloid fibers are water-filed nanotubes," PNAS, 99(8):5591-5595 (2002).	_
		280	PARDRIDGE et al., "Chimeric peptides as a vehicle for peptide pharmaceutical delivery through the blood-brain barrier," <u>Blochem, Blophys, Res, Comm.</u> , 146:307-313 (1987).	
		329	NIEMANN, "Transgenic farm animals get off the ground;" <u>Transgenic Research</u> 7:73-75 (1998).	
		350	Nicoll et al., "Neuropathology of human Alzheimer's disease after immunization with amyloid-\$\textit{\theta} \text{peptide: a case report," \textit{Nature Medicine}, 9(4):448-452 (April 2003).}	
		235.	NEWCOMBE and COHEN, "Solublity characteristics of isolated armyloid fibrils," <u>Blochim. Blophys.</u> <u>Acta</u> , 104:480–486 (1965).	J
		281	NAKAYAMA et al., "Histopathological studies of senile plaques and cerebral amyloidosis in cynomolgus monkeys," <u>J. of Med. Primatology</u> , 27:244-252 (1998).	
		268	NAKAMURA, et al., "Carboxyl end-specific monoclonal antibodies to amyloid β protein (A β) subtypes (A β 40 and A β 42(43) differentiate Ab in senile plaques and amyloid angiopathy in brains of aged cynomolgus monkeys," Neuroscience Letters, 201:151-154 (1995).	
		250	NAKAMURA et al., "Histopathological studies on senile plaques and cerebral amyloid angiopathy in aged cynomologus monkeys," <u>Exp. Anim.</u> , 43:711-718 (1995).	_
		354	MUTSCHLER et al., "Drug Actions: Basic Principles and Therapeutic Aspects," (1995) 7, 11-12, medpharm Scientific Publishers, Stuttgart, Germany.	
,		355	MUNSON ed., "Principals of Pharmacology: Basic Concepts & Clinical Applications," (1995), 47-48, Chapman & Hall, New York, New York.	_
4	/	359	MUNCH et al., "Potentional neurotoxic inflammatory response to Aβ vaccination in humans," (2002) <u>J. Neural Transm.</u> , 109:1081-1087.	
0		233	MORRIS, et al., "The Consortium to Establish a registry for Alzhelmer's Disease (CERAD)," Neurology, 39:1159-65 (1989).	

Considered Considered	Examiner Signature		Date Considered	711/03	
-----------------------	-----------------------	--	--------------------	--------	--

EXAMINER: Initial if religione considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will very depending upon the needs of the individual case, Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3307758 v1

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-01)

Approved for use through 10/31/2002. DMB 0661-0031 U.S. Patent and Tredemark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 14498/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete If Known					
Applicati n Number 09/724,953					
Filing Date	November 28, 2000				
First Named Inventor	Dale B. Schenk				
Art Unit	1647				
Examiner Name	Christopher Nichols				
Attorney Docket Number	15270J-005913US	フ			

(0	use as many she	ets as	песевзагу)	Examiner Name	Christopher Nichols
Sheet	4	of	10	Attorney Docket Number	15270J-005913US

C	<u>)</u>	271	ST. GEORGE-HYSLOP, PETER H. and DAVID A. WESTAWAY, :Antibody clears senile plaques, Nature, 40:116-117 (1999).		
		316	SOTO, et al. Beta sheet breaker peptides inhibit fibriliogenesis in a rat brain model of amyloidosis: implications for Alzheimer's therapy. Nat Med. 4(7):822-6 (1998),		
		319	SMALL, et al. Alzheimer's disease and Abeta toxicity: from top to bottom. Nat Rev Neurosci. 2(8):595-8 (2001).	_	
		337	SKOLNICK and FETROW, "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <u>Trends in Biotech</u> , 18(1):34-39 (2000).		1
		315	SINHA, et al. Recent advances in the understanding of the processing of APP to beta amyloid peptide. Ann N Y Acad Sci. 920:206-8 (2000).	_	1
		314	SIGURDSSON, et al. In vivo reversal of amyloid-beta lesions in rat brain. J Neuropathol Exp Neurol. 59(1):11-17 (2000).	_	
		330	SIGMUND, "Viewpoint: Are Studies in Genetically Altered Mice Out of Control," <u>Arterioscier Thromb Vasc Biol.</u> , 20:1425-1429 (2000).	-	1
		313	SELKOE, The cell biology of beta-amyloid precursor protein and presentilln in Alzheimer's disease. Trends Cell Biol. 8(11):447-53 (1998).	_	
,		270	SCHENK, et al., "#-peptide immunization," Arch. Nuerol., 57:934-936 (2000).		1
		312	SCHENK, et al. Immunotherapy with beta-amyloid for Alzheimer's disease: a new frontier. DNA Cell Biol. 20(11):679-81 (2001).	_	1
		277	SASAKI et al., "Human choroid plexus is an uniquely involved area of the brain in amyloidosis; a histochemical, immunohistochemical and ultrastructural study," <u>Brain Res.</u> , 755:193-201 (1997).		1
		278	SAITOH, N. and K. IMAI, "Immunological analysis of Alzheimer's disease using anti- g-protein monoclonal antibodies," Sapporo Med. J., 60:309-320 (1991).		
		279	SAITO et al., "Vector-mediated delivery of ¹²⁶ I-labeled β-amyloid peptide Ab ¹⁴⁰ through the blood-brain barrier and binding to Alzheimer disease amyloid of the Aβ ¹⁴⁰ vector complex," <u>PNAS USA</u> , 92:10227-10231 (1995).	_	
CS	7	304	RASO, V.A., Grant application # 1 RA3 AGI 5746-01 (non-reducted version), "Immunotherapy of Alzheimer's Bisezse" (publication data unknown).	-	

Examiner Signature		Mul	Date Considered	7/11/03	
	7	T T T T T T T T T T T T T T T T T T T			

*EXAMINER: Initial if releignee of naidered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include cogst of this form with next communication to applicant.

¹ Applicant's unique cliation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OM8 0851-0031
U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE to respond to a contention of the content of the conte

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Complete If Known Substitute for form 1449B/PYO 09/724,953 Application Number INFORMATION DISCLOSURE November 28, 2000 Filing Date STATEMENT BY APPLICANT Dale B. Schenk First Named Inventor **Art Unit** Christopher Nichols (use as many sheets as necessary) Examiner Name Attorney Docket Number 15270J-005913US Sheet

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS									
Examiner Initials *	Cite	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²						
230	349	CHECK, "Battle of the Mind," Nature, 422:370-372 (March 2003).							
90	350	Nicoll et al., "Neuropathology of human Alzhelmer's disease after immunization with armyloid-β peptide: a case report," Nature Medicing. 9(4):448-452 (April 2003).							

Examiner Signature	Lille	Date Considered	7/11/2003

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patenta, Washington, DC 20231. PA 3307744 vl

^{*}EXAMINER: Initial if reference considered, whether of not circlision is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include septral this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
Approved for use through 19/31/2002. OMB 0651-0034
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO				Complete if Known		
				Application Number	09/724,953	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	November 28, 2000	
				First Named Inventor	Dale B. Schenk	
JIA				Art Unit	1647	
(use as many shaets as necessary)				Examiner Name	Christopher Nichols	
Sheet	1	of	2	Attorney Docket Number	15270J-005913US	

			U.S. PATE	NT DOCUMEN	rs	, .	
Examiner	Clie	Number Kind Code ² (// known)	Publication		Name of Patentes or Applicant of Cited Document	Pages, Columns, Unas, Whi Relevant Passagas or Relev	
	No.1		MM-DD-Y	777		Figures Appear	
			U.S. PATE	NT DOCUMEN	ITS		
		Document Number				Pages, Columns, Lines, Wh	
Examiner	Cits No.	Number Kind Code ¹ (# known)	Filing I		Name of Patentee or Applicant of Ciled Document	Raievant Passagas or Relei Figures Appear	vani
						+	
			FOREIGN PA	TENT DOCUM	ENTS		
		Foreign Patent Doc		Publication	Name of Patentee or	Pages, Columns, Unes, Where Relevant Passages	
Examiner Initials*	Cita No."	Country Code Number ⁴	King Code* (If known)	Dale MM-0D-	Applicant of Cited Document	or Relevant Figures Appear	Tå

Examiner Date 7/11/202		 	
Signature Considered Considered	Examiner Signature	Date Considered	7/11/2003

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Wind Codes of U.S. Patent Documents at www.uspto.cox/ or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPD Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement; This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer/U.S. Petent and Trademark Office, Weshington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents. Washington, DC 20231
PA 3307744 v1

PTO/SB/08A (10-01)
Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1996, no pargons are required to respond to a collection of information unless a valid CNB control number;

Substitute for form 1449A/PTO Complete if Known **Application Number** 09/724,953 INFORMATION DISCLOSURE November 28, 2000 Flung Date STATEMENT BY APPLICANT First Named Inventor Dale B. Schenk Art Unit 1647 (use as many sheets as necessary) Examiner Name Christopher Nichols 15270J-005913US Sheet of Attorney Dockel Number

			U.S. PATENT DOCUM	ENTS	0
		Document Number			7
Staminer	Cite No.1	Number Kind Code ¹ (If known)	Publication Date	Name of Patentee or Applicant of Clied Document	Pages, Columns, Unes, Where Relevant Passages or Rélevant Figures Appear
3	340	2002/0162129 A1	10-31-2002	Lannfelt	
	326	2002/0136718 A1	08-26-2002	Raso	- W
	325	2001/0102261 A1	08-01-2002	Raso	
	306	6,417,178 B1	07-09-2002	Klunk et al.	
	342	2002/0009445 A1	01-24-2002	Du et al.	
	267	6,294,171 B2	09-25-2001	McMichael	
	234	6,284,221 B1	09-04-2001	Schenk, et al.	
	300	2001/0016053 A1	08-30-2001	McMichael	
	230	6,262,335 B1	07-17-2001	Hslao et al.	
	345	2002/0077288 A1	06-21-2001	Frangione	
	231	6,114,133	09-05-2000	Seubert et al.	
	221	5,989,566	11-23-1999	Cobb et al.	
	346	5,935,927	08-10-1999	Vitek et al.	
	321	5,837, <u>672</u>	11-17-1998	Schenk et al.	
	353	5,824,322	10-20-1998	Balasubramanian	
	357	5,776,466 B1	07-07-1998	Hauser et al.	
1.	356	5,622,701	04-22-1997	Berg	
	320	5,593,846	01-14-1997	Schenk et al.	
A.	358	5,583,112 B2	12-10-1996	Kensil et al.	
3	284	5,231,170	07-27-1993	Averback	

		JULTIUEE .	10 20 1000		
	357	5,776,468 B1	07-07-1998	Hauser et al.	
Ι.	356	5,622,701	04-22-1997	Berg	
	320	5,593,846	01-14-1997	Schenk et al.	
A.	358	5,583,112 B2	12-10-1996	Kensil et al.	
8	284	5,231,170	07-27-1993	Averback	
			U.S. PATENT DOCU	MENTS	
		Document Number			
Examiner	Cite No.1	Number Kind Code ² (#known)	Filing Date	Name of Patentee or Applicant of Cited Document	Pages, Columna, Linsa, Where Relevant Passages or Relevant Figures Appear
	-295-	66/254,465	12-08-2008	Holtzman et al.	
	- 297	60/254,498	12-08-2000	Holtzman et al.	
	305	09/724,842	11-28-2000	Challfour et al.	
	- 295	60/184,601	92-24-2000	Holtzman at al-	
	282	60/169,667	12 08 1999	Chain	
	242	60/106,584	11-29-1999	Challfour et al.	
4	283	09/441,140	11-16-1999	Solomon et al.	
CBS	-299-	60/186,295	03-01-2000	Resmussen et al.	

Examiner Signature Date Considered 7/11/03

'EXAMINER: Initial If reference considered, whether or not disting to conformance with MPEP 909. Draw line through citation if not in conformance and not considered. Include eaply of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional), ² Kind Codes of U.S. Patent Documents at www.uspto.com or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols se indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2,0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Weshington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Weshington, DC 20231
PA 3307758 v1

PTO/SE/09A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid CMB control number.

Substitute	for form 1449A/PTC)		Complete If Known		
				Application Number	09/724,953	
INFORMATION DISCLOSURE				Filing Date	November 28, 2000	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Dale B. Schenk	
				Arl Unit	1647	
(use as many sheets as necessary)			necessary)	Examiner Name	Christopher Nichols	
Sheet	2	of	10	Attorney Docket Number	15270J-005913US	

			FC	REIGN PAT	ENT DOCUMEN	TS		
Examiner	Cite	For	reign Patent Docum	ent		Name of Patentee or	Pages, Columns, Lines,	Π
initiale*	No."	Country Code ²	Number ^a	Kind Code* (# Angen)	Publication Date MM-DD-YYYY	Applicant of Cited Occument	Where Relevant Passages or Relevant Figures Appear	_ 7°
S	352	wo	02/34777	A1	05-02-2002			
	351	wo	02/34678	A2	05-02-2002			-
	343	EP	1 172 378	A1 .	01-16-2002			-
	344	wo	01/90182	A2	11-29-2001			
	348	wo	01/77167	A2	10-18-2001			—
	294	wo	01/62801	A2	08-30-2001			F
	298	WQ	01/42306	A2	06-14-2001			
	243	wo	01/39796	A2	_06-07-2001			_
	341	wo	02/03911	A2	04-07-2001	,		_
	324	wo	00/72870	A1	12-07-2000			-
	323	wo	00/72876	A2, A3	12-07-2000			_
	322	wo	00/72880	A2, A3	12-07-2000			F
	240	WQ	00/43039	A1	07-27-2000			-
	301	WO	01/62284	A 2	03-01-2000			Ι
	331	wo	99/06545	A2	11-02-1999			-
V	187	EP	783 104	A1	07-09-1997			-
	227	wo	95/11008	A2	04-27-1995			

		_	
Examiner Signature	a will	Date Considered	711163

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

and not considered. Include capty or disclaim visit repart continues to approximate a survey of the policy of the second of the

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Crief Information Officer, U.S. Petent and Trademark Office, Washington, DC 20231. DD NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231
PA 3307758 v1

PTO/SB/08B (10-01)

Approved for use through 10/31/2002, OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1985, no persons are required to respond to a collection of information unless it contains a valid CMB control number

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

	,	 		,,
	7	 _		
Shoot	1 3	~6	4.0	

Complete If Known			
Application Number	09/724,953		
Filing Date	November 28, 2000		
First Named Inventor	Dale B. Schenk		
Art Unit	1647		
Examiner Name	Christopher Nichols		
Attorney Docket Number	15270J-005913US		

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. 1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the No. 1 Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(e), volume-issue number(s), publisher, city and/or country where published.		T2	
90	290	YOUNKIN, "Amyloid β vaccination: reduced plaques and improved cognition," Nature Medicine, 7:18-19 (2001).	-	1
	292	YAMAGUCHI et al., Diffuse plaques associated with astroglial amyloid # protein, possibly showing a disappearing stage of senile plaques." Acta Neuropathol., 95:217-222 (1998).		
	275	WU, et al., "Drug targeting of a peptide radiopharmaceutical through the primate blood-brain barrier in vivo with a monocional antibody to the human insulin receptor," <u>J. Clin. Invest.</u> , 100:1804-1812 (1997).]
	223	WISCONSIN ALUMNI RESEARCH FOUNDATION, "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Betermine Their Safety in Use in Biologicals", U.S. Govt. Res. Develop. Rep., 79(24), 50. (Publication date unknown.)	-	1
	274	WEINER et al., "Nasal administration of amyloid-& peptide decreases cerebral amyloid burden in a mouse model of Alzheimer's disease," <u>Annals of Neurology</u> , 48:567-579 (2000).	-	}
	317	VEHMAS, et al. beta-Amyloid peptide vaccination results in marked changes in serum and brain Abeta levels in APPswe/PS1 DettaE9 mice, as detected by SELDI-TOF-based ProteinChip® technology. DNA Cell Biol. (11):713 21 (2001).		1
	276	TJERNBERG et al., "Arrest of β-amyloid fibril formation by a pentapeptide ligand," <u>Journal of Biological Chemistry</u> , 271:8545-8548 (1996).	_	
	273	THORSETT, E.D. and L.H. LATIMER, "Therapeutic approaches to Alzheimer's disease," <u>Curr. Op. In Chem. Biology</u> , 4:377-382 (2000).	_	1
	339	TENNENT et al., *Serum amyloid P component prevents proteolysis of the amyloid fibrils of Alzheimer's disease and systemic amyloidosis,* PNAS, 92:4299-4303 (1995).	—	1
V	272	SZENDREI, et al., "The effects of aspartic acid-bond isomerization on in vitro properties of the amyloid &-peptide as modeled with N-terminal decapeptide fragments," Int. J. Peptide Protein Res., 47:289-296 (1996).		
(2)	338	STEIN and JOHNSON, "Lack of Neurodegeneration in Transgenic Mice Overexpressing Mutant Amyloid Precursor Protein is Associated with Increased Levels of Transthyretin and Activation of Cell Survival Pathways," The Journal of Neuroscience, 22(17):7380-7388 (September 1, 2002).		

			
Examiner Signature	1 1/1.8	Date Considered	7/11/07
0.8	7 - 1/WW	CONSIDERED	<u> </u>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3307758 vl

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

113 11 217 00

Approved for use through 10/31/2002 ONE 9851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number
Substitute for form 1449B/PTO

INEORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 09/724,953

Filling Date November 28, 2000

First Named Inventor Dale B. Schenk

Art Unit 1647

Examiner Name Christopher Nichols

Attorney Docket Number 15270J-005913US

(use as many sheets as necessary)

Sheet 10 of 10

0	2 0	224	Center for Biologics Evaluation and Research, U.S. Food and Brug Administration, Thimeresel in Vaccines (Moroury in Plasma Derived Products), web site contents found at http://www.fda.gov/char/vaccine/thimeresel.htm.	-
		285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease," Ciln. Neuropham., 15:414A-414B (1992).	
		327	CAMERON, "Recent Advances in Transgenic Technology," <u>Molecular Biotechnology</u> , 7:253-265 (1997).	
7		239	BEASLEY, "Alzheimer's traced to proteins caused by aging," Reuters, April 20, 2001 7:56 PM ET.	+
E	3	228	BARROW, et al., "Solution Conformations and aggregational Properties of Synthetic Amyloid Beta- Peptides of Alzheimer's Disease. Analysis of Circular Dichroism Spectra" J. Mol.Biol., 225(4): 1075- 1093 (1992).	F

Examiner Signature Date Considered 7/11/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this farm with next communication to applicant.

'Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Patents, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for PA 3307758 v1